

USSR / Farm Animals. Cattle.

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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7356

Author : Gulyy, M. F.; Pshenichnyy, P. D.; Vasilenko, D. Ya.; Beletskaya, M. K.; Zhdan, A. B.; Kurbatov, V. I.; Os'makova, M. M.; Chizh-skaya, G. Ya.; Shevchenko, N. I.

Inst : Not given

Title : Ways of Raising the Milk's Fat Content in Cows

Orig Pub : Vestn. s.-kh. nauk, 1957, No 8, 41-50

Abstract : In repeated experiments it was established that when brewer's yeast (3.3 liters per head daily) was temporarily fed to cows, their milk's fat content became increased (by 0.4 percent on the average) for a comparatively long time. When they were fed bre-

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GULYY, M.F.; MAZURENKO, N.P.; GONCHAROVSKAYA, T.S.; DAGTYAR', R.G.; GEMMA,
O.I.; SLYUSARENKO, I.T.; ZAKHAROV, A.V.

Preparation from the lytic substances of *Bacillus mesentericus* and
its action on ascitic cancer in mice. Vrach. delo no.12:1347 D '57.
(MIRA 11:2)

1. Laboratoriya bioterapii raka (zav. - kand.med.nauk N.P.Mazurenko)
Kiyevskogo instituta epidemiologii i mikrobiologii i otdel tkanevykh
belkov (zav. - chlen-korrespondent AN USSR, prof. M.F.Gulyy) Insti-
tuta biohimii AN USSR.

(CANCER) (BACTERIA, ANEROBIC)

GULYY, M.F., akademik; PSHENICHNYY, P.D., akademik; VASILENKO, D.Ya.,
sel'skokhozyaystvennykh nauk; ZHADAN, A.V.; CHIZHSKAYA, G.Ya.

Stimulating the formation of butterfat in cows by diversified
rations containing brewer's yeast. Zhivotnovodstvo 19 no.12:34-36
D '57. (MIRA 10:12)

1.Ukrainskaya akademiya sel'skokhozyaystvennykh nauk i Institut
biokhimii AN USSR.

(Cows--Feeding and feeding stuffs)
(Yeast)

DVORNIKOVA, P.D.; GULIY, M.F.; POPADYUK, O.Ya.

Phosphofructokinase from the muscles of rabbits [with summary in English]. Ukr.biokhim.zhur. 29 no.1:42-53 '57. (MLRA 10:5)

1. Institut biokhimii Akademii nauk Ukrains'koi RSR, Kiyiv.
(PHOSPHOFRUCTOKINASE) (MUSCLE)

GULYY, M.F.; DVORNIKOVA, P.D.; POPADYUK, Ye.Ya.

Increasing the aldolase activity of myogen A by various purified
and crystalline proteins [with summary in English]. Ukr.biokhim.
zhur. 29 no.2:152-165 '57. (MLRA 10:7)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(ADOLASE) (MYOGEN)

GULYY, M.P.; SABALDYR', A.G.

Simple method for isolating and crystallizing muscle phosphorylase
[with summary in English]. Ukr.biokhim.shur. 29 no.2:186-195 '57.
(MIRA 10:7)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(PHOSPHORYLASE) (CRYSTALLIZATION)

~~A. V. N. F.~~

~~Tricarboxylic acid cycle and its physiological significance [with
summary in English]. Ukr.biokhim. zhur. 29 no.3:314-328 '7.
(MLR. 10:9)~~

~~1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(METABOLISM)~~

GULIY, M.F.; DVORNIKOVA, P.D.; POPADYUK, O.Ya.

Mature of the activation of the enzymic action of crystalline
muscle phosphofructokinase by myogen ▲ [with summary in English].
Ukr. biokhim.zhur. 29 no.4:392-399 '57. (MIRA 11:1)

1. Institut biokhimii AN URSR, Kiiv.
(MYOGEN) (PHOSPHOFRUCTOKINASE)

GULY^Y, Nekhtia F.

"The Role of the Insulin in the Citrate Cycle of Animal Tissue."

Inst. of Biochem. Acad. Sci. Ukr SSR, Kiev

paper presented at the 4th Intl. Congress of Biochemistry, Vienna, 1-6 Sep 58.

DVORNIKOVA, P.D. [DVOREYKOVA, P.D.], GULYY, M.E. [GULYI, M.F.], POPADYUK,
Ye.Ya. [POPADIUK, O.IA], MARTENKO, Y.P.

Phosphofructokinase and other crystalline proteins from cat
muscles [with summary in English]. Urk.biokhim.zhur. 30 no.2:187-199
'58 (MIRA 11:6)

1. Institut biokhimii AN URSR, Kiiv.
(PHOSPHORFUCTOKINASE)
(PROTEINS)

GULYY, Maksim Fedorovich [Hulyi, M.F.]; CHAGOVETS', R.V. [Chahovets', R.V.], otv. red.; BRAGINSKIY, L.P. [Brahims'kyi, L.P.], red. izd-va; MATVIICHUK, O.O., tekhn. red.

[Chemical activity of the biological oxidation and synthesis of fats and the problem of higher milk-fat content] Khimicheskaya biologicheskaya okysleniya i systemnye zaryiv ta problema pidvyshchennia zhurnomolochnosti. Kyiv, Vyd-vo Akad. nauk URSR, 1959. 118 p. (MIRA 14:8)

1. Chlen-korrespondent AN USSR (for Chagovets').
(Oxidation, Physiological) (Butterfat)

KOROTKORUCHKO, Vasiliy Pavlovich; GULYY, M.F., akademik, otv.red.;
GRUDZINSKAYA, O.S., red.izd-vs; RAKHLINA, N.P., tekhn.red.

[Purine metabolism in tissues of healthy and tumorous animals]
Obmen purinov v tkaniakh zdorovykh i porazhennykh opukholiami
zhivotnykh. Kiev, Izd-vo Akad.nauk USSR, 1959. 227 p.

(MIRA 12:5)

1. AN USSR (for Gulyy).
(PURINE METABOLISM)

GULIY, M.F. [Hulyi, M.F.]

Great achievements. Nauka i zhystia 9 no.10:4 0 '59.
(MIRA 13:2)

1. Vitse-president AN USSR.

(Russia--Foreign Relations--United States)
(United States--Foreign Relations--Russia)

GULYY, M.F. [Hulyi, M.F.]

Modified tricarboxylic acid or glyoxylate cycle and its physiological significance. Ukr.biokhim.zhur. 31 no.3:444-466 '59.

(MIRA 12:9)

1. Institute of Biochemistry of the Academy of Sciences of the U.S.S.R., Kiyev.

(METABOLISM)

GULYY, M.F. [Hulyi, M.F.]

Enzymes and ways of formation of alphaglycerophosphoric acid in
animal tissues; a survey. Ukr.biokhim.zhur. 32 no.2:291-318 '60.
(MIRA 13:11)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R.
(GLYCEROPHOSPHORIC ACID)
(ENZYMES)

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; FEDORCHENKO, Ye.Ya. [Fedorchenko, O.Ya.]; MARTYNNENKO, F.P.

Method of isolation and some properties of crystalline muscle phosphopyruvic kinase. Ukr. biokhim. zhur. 32 no.6:783-792 '60.
(MIRA 14:1)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiyev.
(PHOSPHOPYRUVIC KINASE)

PALLADIN, A.V., akademik; FEDORCHENKO, I.M., akademik; GULYY, M.F., akademik; BAKULIN, D.I.; MEL'NIKOV, N.P., kand.tekhn.nauk; OKERBLOM, N.O., prof., doktor tekhn.nauk; LYUBAVSKIY, K.V., prof. doktor tekhn.nauk, laureat Stalinskikh premiy; PORTNOY, N.D., kand.tekhn.nauk; TSYBAN', N.G.; KULIKOV, M.S., dotsent; AGRONOMOV, S.N., inzh.; POLYAKOV, V.A., inzh.; SHERSTYUK, V.N., inzh.

Congratulations on the publication of the issue no.100 of the "Avtomatischekaia Svarka" journal. Avtom.svar. 14 no.7: 3-8 Jl '61. (MIRA 14:7)

1. Prezident AN USSR (for Palladin).
2. AN USSR, glavnnyy uchenyy sekretar' AN USSR (for Fedorchenko).
3. AN USSR, predsedatel' redaktsionno-izdatel'skogo soveta AN USSR (for Gulyy).
4. Uchenyy sekretar' AN USSR (for Bakulin).
5. Direktor instituta "Proyektstal'konstruktsiya" (for Mel'nikov).
6. Predsedatel sektsii svarochnogo proizvodstva Tekhniko-ekonomiceskogo soveta Leningradskogo sovnarkhoza (for Okerblom).
7. Glavnnyy svarshchik Uralvagonzavoda (for Portnoy).
8. Glavnnyy inzh. zavoda im. Nosenko (for TSyban').
9. Dal'nevostochnyy politekhnicheskiy institut im. V.V.Kuybysheva (for Kulikov).
10. Dal'zavod (for Agronomov, Polyakov).
11. Dal'nevostochnyy nauchno-issledovatel'skiy institut po stroitel'stvu (for Sherstyuk).
(Electric welding- Periodicals)

GULYY, M.F. [Hulyi, M.F.] (g.Kiyov)

Biological synthesis of protein. Ukr. biokhim. zhur. 33 no.6:
876-922 '61. (MIA 14:12)
(PROTEIN METABOLISM)

GULYY, M. F., DEGTYAR, R. G., and MATSUKA G. KH. (USSR)

"The Mechanism of Certain Physiological Functions of Insulin."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

GULYY, Maksim Fedotovich; CHAGOVETS, R.V., otv. red.; BRAGINSKIY, L.P.,
red. izd-va; SKIYAROVA, V.Ye., tekhn. red.

[Biochemistry of fat metabolism; an outline] Biokhimiia zhirovogo
obmena; ocherki. Kiev, Izd-vo Akad. nauk USSR, 1961. 264 p.
(MIRA 14:11)

1. Chlen-korrespondent AN USSR (for Gulyy).
(FAT METABOLISM)

GULYY, M.F., akademik; DEGTYAR', R.; MATSUKA, G.Kh.

Mechanism of some insulin functions in metabolism. Dokl. AN SSSR
140 no.6:1448-1451 O '61. (MIRA 14:11)

1. AN USSR (for Gulyy).
(INSULIN) (METABOLISM, DISORDERS OF)

GULYY, M.F., akademik, red.; KAVETSKIY, N.Ye., akademik, red.;
OSTRYANIN, D.F., red.; DZYUBKO, I.S., red.; SHUGAYLIN, A.V.,
doktor filos. nauk, red.; YEFIMOVA, M.I., tekhn. red.

[Philosophical problems of contemporary biology; proceedings]
Filosofskie voprosy sovremennoi biologii; materialy. Kiev,
Izd-vo Akad. nauk USSR, 1962. 491 p. (MIRA 15:4)

1. Ukrainskoye soveshchaniye po filosofskim voprosam biologii, Kiev, 1960.
2. Akademiya nauk USSR (for Gulyy, Kavetskiy).
3. Chlen-korrespondent Akademii nauk USSR (for Ostryanin).
4. Zamestitel' ministra vysshego i sredinego spetsial'nogo obrazovaniya USSR (for Dzyubko).

(BIOLOGY--PHILOSOPHY)

GULYY, M.F., akademik; DECTYAR', R.G.

Purification and crystallization of glucose oxidase from the
fungus Penicillium vitale pidoplitchco Bilai. Dokl.AN SSSR 145
no.1:209-211 J1 '62. (MIRA 15:7)

1. Institut biokhimii AN USSR. 2. Akademiya nauk USSR (for Gulyy).
(GLUCOSE OXIDASE) (PENICILLIUM)

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechenova, T.M.]; MARTYNENKO, F.P.

Values of the molecular weight of a mixture of crystalline myogen A and dehydrogenase of d-glyceraldehyde-3-phosphate from the muscles of a rabbit. Ukr. biokhim. zhur. 34 no.3: 327-337 '62. (MIRA 18:5)

1. Institut biokhimii AN UkrSSR, Kiyev.

GULYY, M.F., akademik; PECHENOVA, T.N.; DVORNIKOVA, P.D.

Formation of acetyl phosphate in animal liver homogenates.
Dokl. AN SSSR 146 no.4:933-936 O '62. (MIRA 15:11)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR
(for Gulyy). (LIVER EXTRACT) (PHOSPHATES)

GULYY, Maksim Fedotovich; BELITSER, V.A., akademik, otd. red.;
YANKOVSKAYA, Z.B., red.; KADASHEVICH, O.A., tekhn. red.

[Biosynthesis of protein] Biosintez belka. Kiev, Izdavo
Akad. nauk USSR, 1963. 202 p. (MIRA 16:5)

1. Akademiya nuk Ukr.SSR (for Belitser).
(Proteins) (Biosynthesis)

GULYI, M., (Gulyi, M.), DANTCHAKO, V., (Dantchak, V.),
INDUSTRIAL method of purification, the crystallization, and the
properties of glucose oxidase from the fungus *Mucor vitiaceus*
Pidopl. et Bilai. Ukr. biokhim. zhurn. 34 no.1:137-145 '62.
(MTRA 17:5)

1. Institut biokhimii AN UkrSSR, Kiyev.

GULYY, M.F.

Ribonucleic acid as an intermediary and its role as a matrix in
protein biosynthesis. Ukr.biokhim.zhur. 34 no.3:758-790 '62.

(MIRA 16:4)

1. Institut' biokhimii AN UkrSSR, Kiyev.
(NUCLEIC ACIDS) (PROTEIN METABOLISM)

GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechonova, T.M.];
DVORNIKOVA, P.D. [Dvornikova, P.D.]

Formation of acetyl phosphate in liver homogenates of animals.
Ukr.biokhim.zhur. 34 no.6:846-852 '62. (MIRA 16:4)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.
(LIVER) (ACETYL PHOSPHATE)

GULYY, M.F. [Hulyi, M.F.]; DVORNIKOVA, P.D.; FEDORCHENKO, Ye.Ya
[Fedorchenko, O.IA.]; PECHENOVA, T.N. [Pechenova, T.M.]

Mechanism of enzyme activation with the interaction of purified proteins. Ukr. biokhim. zhur. 34 no.2:187-198 '62.
(MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences
of the Ukrainian S.S.R., Kiev.

*

LITVINENKO, L.T. [Lytvynenko, L.T.]; GULYY, M.F. [Hulyi, M.F.]; POLIKARPOVA,
N.I.

Effect of modifying factors on thiol groups and the biological proper-
ties of proteins. Ukr. biokhim. zhur. 35 no.4:483-495 '63.
(MIRA 17:11)

I. Institute of Biochemistry of the Academy of Sciences of the Ukrainian
S.S.R., Kiyev.

PECHENOVA, T.N. [Pechonova, T.M.]; GULYY, M.F. [Hulyi, M.F.]

Acetyl phosphate conversion in the animal liver. Ukr. biokhim. zhur.
35 no.4:549-559 '63. (MIRA 17:11)

I. Institute of Biochemistry of the Academy of Sciences of the Ukrainian
ian S.S.R., Kiyev.

GULYY, M.F., akademik; PECHENOVA, T.N.; MATUSEVICH, L.I.

Mechanisms and enzymes responsible for acetyl phosphate formation during citric acid transformation in animal tissues. Dokl. AN SSSR 159 no.6:1415-1418 D '64 (MIRA 18:1)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).

GULYY, Maksim Fedotovich; BILAY, Vera Iosifovna; PIDOPLICHKO,
Nikolay Makarovich; DEGTYAR', Rita Grigor'yevna;
NIKOL'SKAYA, Yelena Alekseyevna

[Glucose oxidase enzyme and its use] Ferment gliukozo-
oksidaza i ego primenenie. Kiev, Naukovadumka, 1964.
142 p. (MIRA 18:2)

GULYY, M.E., akademik, otv. red.; BELITSER, V.A., red.;
GERSHENZON, S.M., red.; GOL'DSHTEYN, B.I., red.;
VIZIR, P.Ye., red.; TROITSKIY, G.V., red.; MARTYNENKO,
F.P., red.; YANKOVSKAYA, Z.B., red.

[Proteins in medicine and the national economy; blood
proteins, glucose oxidase] Belki v meditsine i narod-
nom khoziaistve; belki krovi, gliukozoksidaza. Kiev,
Naukova dumka, 1965. 247 p. (MIRA 18:5)

1. Simpozium po voprosam proizvodstva i primeneniya
glyukozoksidazy. Kiev, 1964. 2. Krymskiy meditsinskiy
institut, Simferopol' (for Troitskiy). 3. Institut
biokhimii AN Ukr.SSR, Kiev (for Gulyy).

GILLY, M.F. [Holiyi, M.I.], CHETENOV, T.Y. [Cheteneva, T.N.], LADONOVICH,
D.T. [Matusovych, D.I.]

Mechanism and enzymes of the conversion of citric acid into acyl
phosphates in animal tissues. Ukr. biokhim. zhur. 37 no.1:56-69
'65. (MIRA 18:5)

I. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.

DONIAR', R.G. [Dantiar, R.H.]; GULYI, M.P. [Gulyi, M.P.]; MAYZEL', Ye.B.
[Maizel', E.B.]

Some properties of crystalline and purified monocrystalline glucose
oxidase preparations from *Penicillium vitale* Pidepl. et Bilai.
Ukr. biokhim. zhur. 37 no.2:169-176 '65. (MIRA 18:6)

1. Institut biokhimi AN UkrSSR, Kiyev, i Institut eksperimental'noy
meditsiny AMN SSSR, Leningrad.

GULYI, M.F., akademik; PUCHNOVA, I.V.; MATOVICH, L.I.

Isolation of acetyl phosphate formed in the liver homogenates
following transformation of citric acid. Dokl. AN SSSR 164
no. 3:686-687 S '65. (MIRA 18:9)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).

GULY, M.P., akademik; PASHKOVSKA, Y.Ya.; BUKHOL'CHIK, M. V.; CHUVYKIN, I. V.;
CHEVYLIC, I.A.; FRONINA, Z.V.; ZUBRAVCHIK, N.I.; KATSEVA, G.Pa.

Activation of amino acids with the formation of alpha-carboxy-
phosphates in animal tissues. Dokl. AN SSSR 166 no. 1:227-230
Ja 1966. (MIRA 1971)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Guly).

Submitted July 2, 1965.

GULYY, P.

Speed is the motto of mechanization promoters. Mast.ugl. 9 no.6:4
Je '60. (MIRA 13:7)
(Coal mining machinery)

GULYY, P.

In a new electoral district. Sov. shakht. 11 no.3:10-11 Mr
'62. (MIRA 15:5)
(Kuznetsk Basin--Coal mines and mining)

GULYY, P.

Cutter loaders gather speed. Sov. shakht. 11 no.9:11-12 S
'62. (MIRA 15:9)
(Coal mining machinery)

GULYY, V.K. Cand Med Sci -- (dis) ^{form} Application of the drug "Phtivazide" in the treatment of early ^{types} of tuberculosis". Khar'kov, 1956.

16 pp 20 cm. (Khar'kov Med Inst), 100 copies. (KL, 10-57, 104)

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GULYY, Ye.A.; LOSHIKAREV, P.M.

Quantitative determination of lanatosides A, B, C, and D
in Digitalis lanata. Med. prom. 16 no.1:41-45 Ju '62.
(MIRA 15:3)

1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh
rasteniy.

(LANATOSIDES) (DIGITALIS)

GRYZLOV, V.P.; GULYY, Ye.V.

Content of lanatosides ABC in Digitalis lanata depending on
its nutrition. Med. prom. 16 no.2:8-11 F '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh
i aromaticheskikh rasteniy.

(DIGITALIS)
(LANATOSIDE)

BERKELIYEV, M.; MASHRYKOV, K.K., doktor geol.-miner. nauk, red.;
MESKUTOV, V., red.; GULZHAYEV, E., red.; KHARITONOVA, Ye.I.,
red.; STREL'TSOV, E., tekhn. red.

[Russian-Turkmen dictionary of geological terms] Russko-
turkmeneskii slovar' geologicheskikh terminov. Pod red. K.K.
Mashrykova i V.Meskutova. Ashkhabad, Izd-vo Akad. nauk
Turkmeneskoi SSR, 1962. 226 p. (MIRA 16:1)
(Russian language—Dictionaries—Turkmen)
(Geology—Dictionaries)

GULZOW, M., dr. (Rostock)

Clinical aspects of pancreatic diseases. Orv.hetil. 101 no.47:1657-
1664 20 N'60.

(PANCREAS dis)

ACC NR: AP7001837

(A)

SOURCE CODE: UR/0135/66/000/012/0009/0011

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Zorin, Yu. N. (Candidate of technical sciences); Razzhivin, V. N. (Engineer); Guma, V. V. (Engineer); Popenko, V.S. (Engineer)

ORG: none

TITLE: Methods of determining the regulation characteristics of a low-amperage arc in argon

SOURCE: Svarochnoye proizvodstvo, no. 12, 1966, 9-11

TOPIC TAGS: motion picture camera, current source, welding inspection, arc welding, welding technology / Kiev 16S-2 motion picture camera, IP-50 current source

ABSTRACT: At present argon-arc welding by means of automatic welding machines (AWM) with a nonconsumable electrode is widely employed to weld parts of stainless steel 0.2-1.0 mm thick in argon with the aid of positive-polarity direct current with an 0.25-3.0 mm long arc. The intensity of the welding current ranges from 1.0 to 70 a. The ultimate purpose of regulation is to produce a welded joint of high quality. But since the AWM affects directly not the

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UDC: 621.791.75.01

ACC NR: AP7001837

weld but the arc, this regulation can be accomplished only if the regulation characteristic, i.e. the dependence of voltage on arc length, is known, since the AWM reacts directly not to the length but to the voltage of the arc. Normally the regulation characteristic is determined by static tests or from a recalculation of volt-ampere characteristics of the arc, but this does not reveal all the features of the regulation characteristic, particularly for the welding of parts 0.2-0.5 mm thick with the aid of a short arc with currents of less than 30 a. Of special practical interest in this connection is the part of the regulation characteristic corresponding to arcs of less than 0.5 mm in length; if in this case the voltage is either virtually independent of the arc length or increases with decreasing arc length, then even a highly sensitive feedback-type AWM cannot assure the regulation of arc length with respect to voltage. To eliminate this difficulty, the authors developed a new method of determining the regulation characteristic, based on the following considerations: Since the regulation characteristic represents the dependence of U_θ on L_θ , a continuous curve can be plotted during continuous movement of the electrode. At the same time, in order to gain the correct idea of the arc length, the position of the arc column must be checked in two mutually perpendicular planes and the plunge of the arc into the metal prevented. This new method provides for the simultaneous examination of the arc from both sides by means of two Kiev 16S-2 motion picture cameras (16 frames per second) positioned at right angles to each other so that the position of the arc column and the length of the arc can be accurately determined. A corresponding experimental setup was con-

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ACC NR: AP7001837

structed (Fig. 1): its principal components are: welding torch 1, mechanism 2 for vertical movement of welding torch, at the rate of 0.2-2.0 mm/sec, rotator 3, chuck 4 for attachment of welding heat, and table 5.

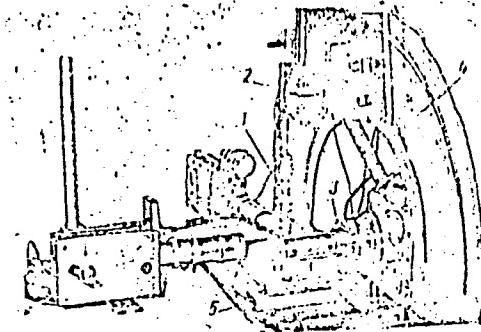


Fig. 1. Experimental setup

The double filming of the welding operation is synchronized with oscillographic recording of current and voltage by means of a time mark whose design and switching circuit are shown in Fig. 2: the connection and disconnection of the electrical circuit are assured by the closing of contacts 2 by shutter 1 of the motion picture camera, represented by a metal disk with a flare

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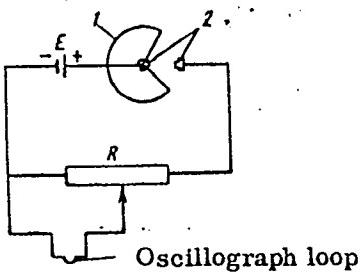


Fig. 2. Design and switching circuit of time mark

angle of 110°. Argon consumption was 140-160 liters/hr. Regulation characteristics were plotted for currents of from 0.7 to 50 a. Findings: processing of the kinograms showed that in the presence of short arcs the arc column is rarely displaced from its axis and the resulting deviation is sufficiently stable in time and readily fixed by means of the kinogram. In subsequent experiments an IP-50 current source was employed to reduce to ~3% the current deviation accompanying the change in arc length from 0.1 to 5.0 mm. It was found that when the arc length is sufficiently short the linear relationship between voltage and arc length no longer applies and the regulation characteristic becomes nonlinear. This nonlinearity clearly manifests itself when the arc length is 0.5 mm and shorter. Orig. art. has: 4 figures.

SUB CODE: 13, 14/ SUBM DATE: none/ ORIG REF: 002

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L 31322-66 EWT(m)/EWA(d)/EWP(t) IJP(c) JD
ACC NR: AP5026291

SOURCE CODE: UR/0125/65/000/010/0038/0040

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Il'yenko, N. A.
(Engineer); Guma, V. V. (Engineer)

ORG: [Alekin, Il'yenko] MVTU im. Baumana

TITLE: Pressure of low-amperage argon arc on the molten pool

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 38-40

TOPIC TAGS: arc welding, low amperage welding arc, welding technology, welding electrode, molten metal

ABSTRACT: The welding arc exerts a definite mechanical effect, termed arc pressure, on the pool of molten metal. During welding with a nonconsumable electrode, this effect is created chiefly by the pressure of the arc's plasma jet and conditioned by the pinch effect. Since during welding, in an overwhelming majority of cases, the electrode is positioned at right angles to the weldment, the molten pool is acted upon not only by arc pressure but also by the electromagnetic force of the welding circuit. In this connection, the authors designed a special setup for measuring the pressure of low-amperage argon arc on the molten pool during welding with a nonconsumable electrode (see Fig. 1 of the Enclosure). Its principal feature is mobile rod 5, with plate 6 of OKh13N9T stainless steel attached to one end of the rod and counter.

UNC: 621.791.856

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L 31322-66
ACC NR: AP5026291

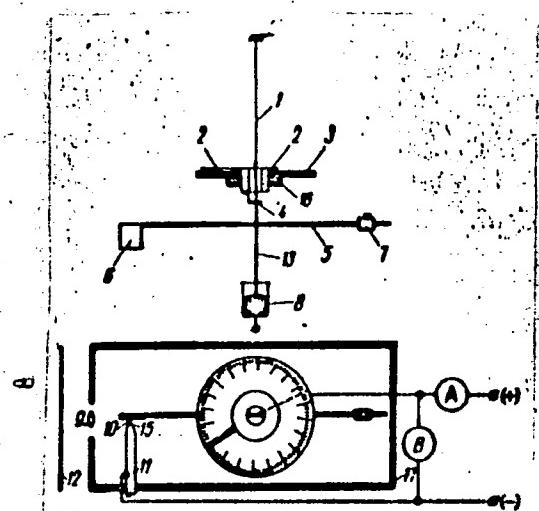


Fig. 1. Setup for determining arc pressure
3 -scale; 8 - mercury contact; 10 - arc; 11 - welding
torch; 16 - fixed base; 17 - protective casing; for the
other designations consult the text

2/3

VL 31322-06

ACC NR: AP5026291

weight 7 attached to its other end. Soldered to rod 5 is copper rod 13, with one end immersed in a mercury bath and with thin silk thread 1 tied to the other end. In this position, mobile rod 5 is in a state of equilibrium. Arc pressure is balanced by means of helical spring 4, one end of which is affixed to rod 13 and the other end, to bushing 2 with a pointer. The arc burns between plate 6 and electrode 15. By means of lens 9 the arc is projected onto screen 12 with tenfold magnification. The experiment is performed as follows: Gas is turned on, thus deviating the mobile part of the device. This deviation is compensated by the bushing with helical spring 4. Bushing 2 rotates until the necessary distance is established between electrode 15 and plate 6. Then the pointer of the device indicates the gas pressure (in mg). The arc ignites. Its pressure is balanced by further rotation of bushing 2 until the necessary arc length is obtained. The difference in readings gives the arc pressure. The length of the arc is determined from its projection onto screen 12. In this way, it was determined that during welding with a 2-13 argon arc by means of a tungsten electrode (1.5 mm diameter) the arc pressure on the molten pool varies from 0.2 to 10.5 mg and is directly proportional to the square of current intensity. As the arc length increases, the arc pressure decreases insignificantly. A change of 50% in the flow rate of protective gas does not appreciably affect the arc pressure. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 19Nov64/ ORIG REF: 005/ OTH REF: 003

Card

3/3

20

L 9536-66 ENT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) M.I.W./JD
ACC NR: AP5026291

SOURCE CODE: UR/0125/65/000/010/0038/0040

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Il'yenko, N. A. (Engineer);
Guma, V. V. (Engineer)

ORG: [Alekin, Il'yenko] MVTU im. Baumana

37

B

TITLE: Pressure of low-amperage argon arc on the molten pool

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 38-40

TOPIC TAGS: arc welding, low amperage welding arc, welding technology, welding electrode, molten metal

ABSTRACT: The welding arc exerts a definite mechanical effect, termed arc pressure, on the pool of molten metal. During welding with a nonconsumable electrode, this effect is created chiefly by the pressure of the arc's plasma jet and conditioned by the pinch effect. Since during welding, in an overwhelming majority of cases, the electrode is positioned at right angles to the weldment, the molten pool is acted upon not only by arc pressure but also by the electromagnetic force of the welding circuit. In this connection, the authors designed a special setup for measuring the pressure of low-amperage argon arc on the molten pool during welding with a nonconsumable electrode (see Fig. 1 of the Enclosure). Its principal feature is mobile rod 5, with plate 6 of 0Kh18N9T stainless steel attached to one end of the rod and counter-

Card 1/3

UDC: 621.791.856

I. 9536-66

ACC NR: AP5026291

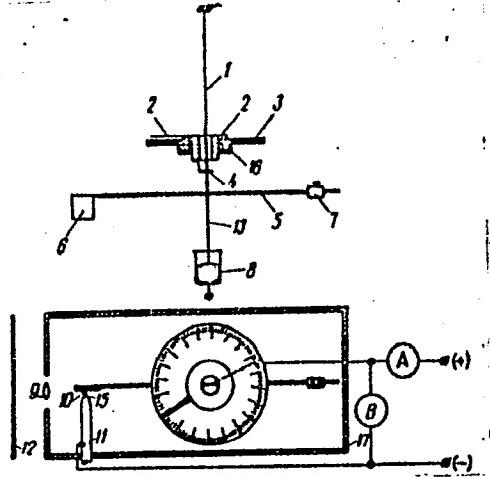


Fig. 1. Setup for determining arc pressure

3 - scale; 8 - mercury contact; 10 - arc; 11 - welding
torch; 16 - fixed base; 17 - protective casing; for the
other designations consult the text

2/3
Card

L19536-66

ACC NR: AP5026291

weight 7 attached to its other end. Soldered to rod 5 is copper rod 13, with one end immersed in a mercury bath and with thin silk thread 1 tied to the other end. In this position, mobile rod 5 is in a state of equilibrium. Arc pressure is balanced by means of helical spring 4, one end of which is affixed to rod 13 and the other end, to bushing 2 with a pointer. The arc burns between plate 6 and electrode 15. By means of lens 9 the arc is projected onto screen 12 with tenfold magnification. The experiment is performed as follows: Gas is turned on, thus deviating the mobile part of the device. This deviation is compensated by the bushing with helical spring 4. Bushing 2 rotates until the necessary distance is established between electrode 15 and plate 6. Then the pointer of the device indicates the gas pressure (in mg). The arc ignites. Its pressure is balanced by further rotation of bushing 2 until the necessary arc length is obtained. The difference in readings gives the arc pressure. The length of the arc is determined from its projection onto screen 12. In this way, it was determined that during welding with a 2-13 argon arc by means of a tungsten electrode (1.5 mm diameter) the arc pressure on the molten pool varies from 0.2 to 10.5 mg and is directly proportional to the square of current intensity. As the arc length increases, the arc pressure decreases insignificantly. A change of 50% in the flow rate of protective gas does not appreciably affect the arc pressure. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 19Nov64/ ORIG REF: 005/ OTH REF: 003

Rehn
Card 3/3

L 20544-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k) JD/HM SOURCE CODE: UR/0125/65/000/009/0005/0007
ACC NR: AP5023077

AUTHOR: Alekin, L.Ye. (Candidate of technical sciences); Zorin, Yu.N. (Candidate of technical sciences); Razzhivin, V.N. (Engineer); Guma, V.V. (Engineer) (Moscow); Popenko, V.S. (Engineer) (Moscow)

ORG: none

TITLE: Determination of the volt ampere characteristics of a low-current welding arc

SOURCE: Avtomaticheskaya svarka, no. 9, 1965, 5-7

TOPIC TAGS: volt ampere characteristic, arc welding, welding, welding electrode, arc discharge, arc property

ABSTRACT: A method of determining volt ampere characteristics of a low-current arc in argon is described. It is shown that the error in arc column and length determinations can be eliminated by photographing the arc with two cameras arranged at right angles to each other. A clear picture of the entire area including the electrode, weld, cathode spot, anode spot, and column can be obtained with the aid of additional rings and light filters. The true distance between the tip of the electrode and the weld in the presence of a flash arc is determined within an accuracy of 0.01 mm by taking into account the thermal expansion of the electrode. The arc is ignited on a special pipe with escalated ribs fusible in the molten pool in order to eliminate

UDC: 621.791.856

Card 1/2

L 20544-66

ACC NR: AP5023077

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measurement errors due to sinking of the arc in the base metal and to obtain a molten pool at any welding current. This method was used in determining the static volt ampere characteristic and the relationship between the arc current and gap in argon welding with a nonfusible tungsten electrode. Orig. art. has: 4 figures.

SUB CODE: 13,09

SUBM DATE: 22Jun64

ORIG REF: 004

Card 2/2 LJC

ACC NR: AM6029769

Monograph

UR/

Yurchenko, Yu. F.; Guma, V. V.; Roshchin, V. V.; Grinenko, V. I.;
Popenko, V. S.; Kurkumeli, A. A.

Fitting and welding of corrosion-resisting steel piping in the atomic industry (Montazh i svarka truboprovodov iz korrozionnostoykikh stalei v atomnoy promyshlennosti) Moscow, Atomizdat, 1966. 248 p. illus., biblio. 2,800 copies printed.

TOPIC TAGS: pipeline, welding, automatic welding, welding technology

PURPOSE AND COVERAGE: The authors discuss current practices in assembling and welding pipelines from corrosion-resistant steels, designated for use in aggressive media in atomic industry. Existing techniques are evaluated and recommendations are made on the selection of appropriate methods, whose technical and economic indices are cited. Welding operations and equipment, and assembly and welding machinery are described; automatic welding and the complete automation of assembly operations are emphasized. The book is intended for engineers and technicians and all specialists working in design and assembly shops of plants and research institutes specializing in the welding of corrosion-resistant steels. There are 108 references of which 56 are Soviet.

Card 1/2

UDC: 621.643.411.4:669.14.018.6

ACC NR: AM6029769

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617320020-0"

TABLE OF CONTENTS [abridged]:

- Foreword -- 3
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- Ch. II. Basic materials and welding materials used in the production of pipelines -- 20
- Ch. III. Pipeline welding -- 20
- Ch. IV. Preparing pipelines for welding -- 104
- Ch. V. Welding equipment -- 129
- Ch. VI. Organization of pipe-assembly operations -- 189
- Ch. VII. Quality control of welded pipe joints -- 202
- Ch. VIII. Safety measures -- 236

SUB CODE: 13/ SUBM DATE: 20Apr66/ ORIG REF: 081/ OTH REF: 027

Card 2/2

GUMANYUK, Mstislav Nestorovich, kand. tekhn.nauk; YANCHUK, G.M.,
kand. tekhn. nauk, retsenzent

[Magnetoelastic transducers in automatic control] Magnito-
uprugie datchiki v avtomatike. Kiev, Tekhnika, 1965. 154 p.
(MIRA 18:8)

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Studying the possibility of producing and using certain salts
of aromatic sulfonic acids. Trudy LIEI no. 46:92-95 '63.
(MIRA 17:6)

GUMAN, E.

Fuels
① Maths

Fuel Abst.

Vol. 15 No. 4

Apr. 1954

Gaseous Fuels: Properties and Treatment

✓ 2860. COMPUTING NATURAL GAS PIPE LINES. GUMAN, E. (Acta tech.
hung., 1952, vol. 5, 397-404). Compares tests on natural gas and coke oven
gas lines. Discusses Nikuradse's equations and splits up the flow equation
into two factors.

B.T.R.

9-28087

GUMAN, I.

Guman, I. "Das photometrische Doppelsternsystem CD Vulpeculae, Budapest, Ungarische Akademie der Wissenschaften, 1951." p. 13 (Mitteilungen der Sternwarte der Ungarischen Akademie der Wissenschaften, Nr. 24) (The photometric double star system CD Vulpeculae. Text in German)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

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VZ Cancri, ein RR Lyrae-Stern mit sehr kurzer sekundärer Periode. Budapest,
1955. 16 p. (Budapest. Csillagvizsgalointezet. Mitteilungen, nr. 36) VZ
Cancer, an RR Lyra star with a very short secondary period. In German)

GURAN, J.

Calculation of pressure losses of highly viscous oils in pipelines. p. 652.
Vol 10, no. 12, Dec. 1955. BANYAGZATI LAPOK. Budapest, Hungary.

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GUMAN, J.

"Utilization of asbestos-concrete pipes in the municipal gas-distribution network; also, remarks by K. Somhegyi and L. Dobo."

p. 405 (Energia Es Atomtechnika) Vol. 10, no. 8/10, Dec. 1957
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

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Determination of the smallest velocity necessary for fluidization. p.309

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GUMAN, V.N.; SLIV, L.A.; SOGOMONOVA, G.A.

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1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Lead—Isotopes)

GUMAN, V.N.

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and a single redundant nucleon. Zhur.eksp.i teor.fiz. 41 no.3:
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1. Leningraskiy fiziko-tehnicheskiy institut AN SSSR.
(Nuclei, Atomic)

BIRBRAIR, B.L.; GUHAN, V.N.

Excitation spectra of Tl²⁰⁸ and Bi²⁰⁸ nuclei. IAd. fiz. 1 no.6:
9'71-975 Je '65. (MIRA 18:6)

1. Fiziko-tehnicheskiy institut imeni Ioffe AN SSSR.

GUMANICHENKO, P.P., "and med "ci -- (diss) "Production
physio-~~ph~~rophylactic devices in ~~the~~ complex of sanitary—
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of studies in coal mines in the Kuzbass)." Tomsk,
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FISHMAN, G.M.; GUUMANITSKAYA, M.N.

Processing of cherry plums for the manufacture of juices, beverages
and concentrates. Kons. i ov.prom. 18 no.3:18-21 Mr '63.
(MIRA 16:3)

1. Batumskiy filial Nauchno-issledovatel'skogo instituta pishchevoy
promyshlennosti soveta narodnogo khozyaystva Gruzinskoy SSR.
(Georgia—Cherry plums) (Canning and preserving)

✓ Precipitation chromatography as a means of separating organic ingredients of pharmaceutical mixtures
S. M. Stepanov, A. A. Andreev, L. I. Gulyanova, and
G. V. Koval'eva (Moscow, Pharm. Institute, USSR)
J. R. "Analyst" 2, N. 5, 33-36 (1953).
The method is based on the difference between the polarities of the components of the mixture, which are separated by precipitation of a precipitant and the separation of the precipitate from the carrier by means of decolorizing agents. A column 10 cm long and 1.5 cm in diameter, packed with a mixture of precipitant, decolorizing agent, and carrier and starch, silica gel, etc. The mixture is placed in a dark chamber, covered by a glass lid. After 10-12 hours (contg. the pots) stand out as dark spots on a lighted background. The method was applied to the separation of salts of formic, citric, acetic, carbonic, and benzoic acids with alumina as carrier. These salts form colored points with Cu and uncolored with Ba. However, when more than 2 acids are present the zones cannot be distinguished from each other. After 25-30 hrs, when crystallizing, they stand out distinctly. Cu, Co, and Fe salts can be separated with the aid of barbituric acid as a precipitant and benzene as carrier. NH₄ boric acid and silica gel as carrier make possible the separation of Cu, Cr, Co and Al, Fe, Cr and Co. Antimony and Urotropin can be sepd. with the aid of Cu(NH₃)₄ and Al₂O₃ as carrier. On the other hand by using rhomypine or Urotropin as precipitant it is possible to sep. Pb and Cu. Cu, Pb, and Fe can be sepd. with aspirin as precipitant and Al₂O₃ with CuCO₃ as carrier. The quality of the chromatogram depends on the content of the solutions, of the precipitant in the carrier, nature of the carrier, and width of the column. Time is also a factor helping to make the zones stand out more distinctly.
A. B. Mirkin

GUZANOV, L.I.; KERZHNEV, V.V.; KOMAROV, S.P.

Mutagenic effect of nitrosoethylenurea on Actinomyces pyogenes (Streptomyces sphaeroides). Dokl. AN SSSR 160 no. 6; 1965
(Zh. fiz. khim.) 18:2

1. Institut khimicheskoy fiziki AN SSSR. Submitted August 21, 1964.

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Pave the way for amateur motion pictures. Sov. profsciuzy 16
no.22:38-41 N '60. (MIRA 14:1)
(Amateur motion pictures)

GUMANSKIY, B.M., prof.; KOMAROV, N.S., dots.; NIKOLAYEV, B.A.,
kand. tekhn. nauk; SHAROBAYKO, T.N., red.

[Concise manual on geological field work] Kratkoe rukovodstvo
po provedeniu uchebnoi geologicheskoi praktiki; uchebnoe po-
sobie. Leningrad, Leningr.in-t inzhenerov zheldro.transp.
1961. 61 p. (MIRA 15:5)
(Engineering geology--Study and teaching)

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Journal of the Iron and Steel Inst.
June 1954
Properties and Tests

Ultrasonic Testing of Forgings and Castings. V. Blažek,
J. Kohárovský, J. Gumprecht, P. Sochor, and K. Šimonek.
(*Strojírenství*, 1955, 6, (10), 744-751). (In Czech). An account
is given of the use of ultrasonic equipment of the transmission-type
"Ultracone" (Belgian) and of the reflection-type
"Hughes II B" (British) in Czechoslovak heavy industry,
and of research on the use of ultrasonics for detecting flaws
in castings and forgings, carried out in Czechoslovakia. Flaws
as revealed on the cathode-ray screens are shown and analysed.
Comparative tests, using both types of detector, showed that
in the case of heat-treated pieces with machined surfaces the
reflection detector gave the most accurate information as to
size and position of defects, whilst the transmission method
was more advantageously used with steel and iron castings.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617320020-0

GUMANSKIJ, J.

The use of Radioactive Isotopes for Thickness Gauging. M G
J. Gumanskij. (Trubnitske Listy, 1954, 9, Doc. Supplement
742-44). (In Czech).

PL 88

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617320020-0"

WILHELM, J.

Kuba, J. Radioisotopes measure engine wear. p. 234.
Learning about the transitional types of JAWA-50 motorcycles. (To be contd.)
p. 245.
Svet MOTOCYKLY, Praha, Vol. 9, no. 3, Apr. 1955.

SO: Monthly List of East European Accessions, (EAI), LC, Vol. 4, no. 12, Oct. 1955,
Uncl.

SOV/137-58-8-18026

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 260 (USSR)

AUTHOR: Gumanskiy, G. A.

TITLE: On Emission Micro-X-ray Diffraction Study of Metals (Ob
emissionnoy mikrorentgenografii metallov)

PERIODICAL: Izv. AN UzSSR. Ser. fiz.-matem. n., 1957, Nr 3, pp 27-37

ABSTRACT: The relationship of the secondary emission of electrons (EE) of Bi, W, Sn, Ag, Se, Fe, and Al with the atomic number of the emitter Z was studied on cylindrical specimens 5 mm in diam and 3 mm high. An X-ray tube with a W anode served as the source of radiation; the radiation was filtered by complex heavy and light metal filters. It was established that EE excited by X-ray radiation with an effective wave length is not a simple function of Z. Electrons with an energy $E_e > 30$ kev are photo-electrons and fast compton-electrons. For elements with low Z the fast component does not guarantee the resolution of elements according to the intensity of the radiation. The slow component of EE ($E_e < 30$ kev) is composed of compton-electrons and slow photo-electrons (SP). SP emitted by heavy elements are principally K-electrons. SP afford the resolution of elements on

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SOV/137-58-8-18026

On Emission Micro-X-ray Diffraction Study of Metals

X-ray micro-diffraction pictures. The secondary characteristic radiation has practically no effect on the contrast of the X-ray micro-diffraction pictures. Photometric analysis permits the resolution of elements with $\Delta Z \geq 4$ when the X-ray micro-diffraction picture is taken under proper conditions.
Bibliography: 20 references.

A. R.

1. Secondary emission--Analysis
2. Secondary emitters--Properties
3. X-ray diffraction analysis

Card 2/2

USSR / Farm animals. Silkworms.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54891.

Author : Arifov U. A., Gumanskiy G. A., Kleyn G. A., Pashinskii S. Z., Schchenkov S. N.

Inst : Not given.

Title : The Effect of Gamma Rays on the Live Chrysalides of the Mulberry-Feeding Silkworm.

Orig Pub: Dokl. AN UzSSR, 1957, No 4, 9-12.

Abstract: The cocoons with live pupae of the breed Soviet Baghdad were subjected to gamma irradiation (source Co⁶⁰, intensity 15 curies) with doses of 2 to 700 thousands r. With the increase of the doses of irradiation, the death rate of the pupae was augmenting. Irradiation with a dose of 240 thousands r. was destroying all 5-day old pupae and the irradiation with a

Card 1/2

69

USSR / Farm animals. Silkworms.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54889.

Abstract: white, cocoons emit an intense blue-violet luminescence. The presence of the cocoons of yellow luminescence among the White Cocoon breeds and their hybrids constitutes an undesirable trait in the breeds and their crosses. The yellow pigment disappears in the process of the production of the tissue, but in dyeing the tissue becomes striped. Luminescent analysis may be used at breed-research stations for the purpose of evaluation of the qualities of the new White Cocoon breeds.

Card 2/2

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~~Microradiography of Metals.~~" Tashkent, Pub House of Acad
Sci of UzSSR, 1958, 8 pp. (Acad Sci of UzSSR, Phys Tech
Inst), 150 copies.
(KL, 41-58, 119)

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ARTIFOV, U. A., BARKOV, V. A., GIBANSKIY, G. A., KLEYN, G. A., PASHINSKIY, S. N.,
TKHIELIDZE, T. L. M., TSETSKHLADZE, T. V., CHIGHEIDZE, T. E., and SHENKOV, S. B.

"Treatment of Silkworm Cocoons by Radiation,"

paper to be presented at 2nd UN Intl." Conf. on the peaceful uses of Atomic
Energy, Geneva, 1 - 13 Sept 58.

ARIFOV, U.A.; GUMANSKIY, G.A.; KLEYN, G.A.; PASHINSKIY, S.Z.; SHCHENKOV, S.N.

Physical and technological properties of silkworm cocoons
killed by γ -rays. Izv. AN. Uz. SSR. Ser. fiz.-mat. nauk
no.3:5-9 '58. (MIRA 11:10)

I.Fiziko-tehnicheskiy institut AN UzSSR.
(Silkworms) (Gamma rays--Industrial application)

GUMANSKAYA, G.A.

- PLACE: Book DEPOSITORY
DATE: 50W/27/13
- International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958. (Reports) 2nd
Bul'dygovskikh ulichnykh; Polucheniye i Primenenie Isotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, of Soviet Scientists; Production and Application of Isotopes) Moscow, Akademiada, 1959. 500 p. (Series: 152; Treaty, vol. 6) 8,000 copies prepared.
- Editor (Title page): G.V. Kudymov, Academician, and I.I. Borikov, Corresponding Member, USSR Academy of Sciences; Ed. (Index book): Z.D. Andrenko, Youth, Ed.; Z.D. Andrenko.
- PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses, for professors and graduate and undergraduate students of higher technical schools where nuclear science is taught, and for the general public interested in atomic science and technology.
- CONTENTS: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 52 papers on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds; 2) research results obtained with the aid of isotope in the field of chemistry, medicine, agriculture, and agriculture; 3) dosimetry of ionizing radiation; Volume 6 was edited by S.Y. Lerman, Candidate of Medical Sciences; V.S. Gulyaev, Candidate of Technical Sciences; and V.V. Sedov, Candidate of Physiological Sciences. See Series 151 for titles of volumes of the set. Entries appear at the end of the articles.
26. Zaitsev, V.I., M.I. Ruzmetov, and S.Y. Riznichenko. Radioactive Isotopes for Solving Problems in Radiobiology (Report No. 2517) 255
27. Andreyev, O.I. Radioisotope Phenomena in the Leaflet Glau (Report No. 2520) 267
28. Zvezdny, I.A. (Dissertation). Smelter Smear Formation of the Skin, Its Relation to the Action of the Root, and Its Reception From the Organs of the Animal (Report No. 2518) 279
29. Arifov, U.A., I.B. Arsalanov, V.A. Basmajyan, G.A. Gerasimov, G.A. Klychev, E.Z. Pashinian, L.R. Tchilidze, N.Y. Tsereteli, T.M. Chaburda, and S.S. Shashkov. Radiation Killing or Recovery of the Mulberry-Feeding Silkworm (Report No. 2521) 282
30. Moshkin, P.A., and L.V. Matlykay. Studying the Effect of Ionizing Radiation on the Protoplasts of Potato Tuber with Respect to Tissue Storage (Report No. 2522) 273

GUMANSKIY, G.A.; BALASHOV, V.N.; ZIMAN, Yu.N.

Using emission radiography for studying the paragenetic relationship between minerals and the composition of ores containing elements with a high atomic number. Geol. rud. mestorozh. no.5:123-124 S-0 '60. (MIRA 13:10)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.
(Radiography) (Mineralogy)

GUMANSKIY, G.A.

Some properties of nonsaturated ionization chambers. Nauch. trudy
TashGu no.221.Fiz. nauki no.21:163-175 '63. (MIRA 17:4)

GUMANSKIY, G.A.; SKVORTSOV, V.V.

Pulsed high-frequency ion source with impact excitation. Nauch.
trudy TashGu no.221.Fiz. nauki no.21:180-183 '63. (MIRA 17:4)

ACCESSION NR: AR4022433

S/0058/64/000/001/A027/A027

SOURCE: RZh. Fizika, Abs. 1A259

AUTHORS: Gumanskiy, G. A.; Panfilov, L. K.

TITLE: Pulse-height analyzer with photographic recording

CITED SOURCE: Nauchn. tr. Tashkentsk. un-t, vy*p. 221, 1963, 176-179

TOPIC TAGS: pulse-height analyzer, photographic analyzer output,
linear amplifier, square wave oscillator, synchroscope, pulse ionization chamber, uranium Alpha spectrum

TRANSLATION: A simple pulse-height analyzer with photographic recording is described. Factory type instruments were used where possible in the development of this analyzer. The analyzer consists of a DM linear amplifier, a square-wave pulse shaper (GI-2A oscillator), 25I synchroscope, UIP power supply, and a photographic camera.

Card
1/2

ACCESSION NR: AR4022433

Each investigated pulse is represented on the synchroscope screen by a horizontal line, the height of which relative to some initial line is proportional to the pulse amplitude at the input. During the measurements, the synchroscope screen is photographed continuously on a single photographic plate. The investigated spectrum is obtained by photometry of the developed plate. The analyzer described can be used in conjunction with a pulse ionization chamber to investigate the alpha spectrum of a natural mixture of uranium salts. L. S.

DATE ACQ: 03Mar64

SUB CODE: PH, PG

ENCL: 00

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617320020-0

ABIDOV, M.A.; GLUMANSKIY, G.A.; SEREBRO, Yu.P.

Pulse accelerating tube. Nauch. trudy Tsentr no.22 Filz. nauki
no.22 87-91 '64. (MIR 18:5)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617320020-0"

1. SINYAVIN, S. Ya.: KOSHEVY, N.A.: GUMNICK, A.A. (and others)
 2. USSR (600)
 4. Karakul Sheep
 7. Principles in developing and caring for the flock on state karakul farms.
Kar. i zver. 5 No. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

GUMANYUK, M.I., inzh.; TARASEVICH, L.I., inzh.

Preventing the overlapping of ropes in mine hoists caused by the
sticking of the bucket. Bezop.truda v prom. 6 no.4:24-25 Ap
'62. (MIRA 15:5)

(Mine hoisting--Safety appliances)

S/123/60/000/010/005/011
A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 10, p.12⁴,
49774

AUTHOR: Gumanyuk, M.N.

TITLE: Utilizing Ultrasonic Waves in Technological Processes

PERIODICAL: Byul. tekhn.-ekon. inform. (Sovnarkhoz Khar'kovsk. eken. adm. r-na),
1958, No. 1, pp. 26-31

TEXT: As a result of works in the field of using ultrasonic waves in technological processes, the Konotopskiy zavod (Konotop Plant) "Krasnyy metallist" has manufactured a number of ultrasonic generators with a frequency range of 200 to 800,000 cps and a power range of 200 w to 10 kw. The electric circuits of the generators are presented. Ultrasonic drilling machines with a power range of 150 w to 1 kw for the machining of brittle and hard materials have been produced. The author established the great efficiency of ultrasonic cleaning of components prior to electroplating. The application of ultrasonics of an intensity of 0.5 - 1 w/cm² for nickel plating makes it possible to increase the current up to 8 amp/dm². At a current density of 3-4 amp/dm² a sur-

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S/123/60/000/010/005/011
A004/A001

Utilizing Ultrasonic Waves in Technological Processes

face finish is obtained which does not require any further treatment. Also the intensification of zinc plating is being investigated. Tinning of the ends of aluminum wiring is effected within 2-3 sec by a torch fitted with an ultrasonic head. The soldering of cavities in aluminum castings is carried out within 10-20 sec. There are 8 figures.

B.I.A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

YANCHUK, G.M., kand.tekhn.nauk; GUM'ANYUK, M.N., inzh.

Magnetoelastic elements for automatic control systems in coal
mining. Ugol' Ukr. no.6:32-34 Je '60. (MIRA 13:7)

1. Konotopskiy zavod "Krasnyy metallist."
(Automatic control--Equipment and supplies)
(Coal mines and mining)

GUMANYUK, M.N., otv. red.; MATVEYEV, M.P., red.; D'YACHENKO, I.M.,
red.; GUSAROV, K.F., tekhn. red.

[Automatic control in the coal and metal mining industries;
materials of a scientific technological conference] Avtoma-
tizatsiia v ugol'noi i gornorudnoi promyshlennosti; materialy
nauchno-tehnicheskoi konferentsii. Kiev, Gostekhizdat USSR,
1961. 230 p. (MIRA 15:7)

1. Nauchno-issledovatel'skaya laboratoriya zavoda "Krasnyy
metallist" (for Gumanyuk).
(Coal mines and mining) (Mining engineering) (Automatic control)

GUMANYUK, M.N., inzh.

Ultrasonic pick-up for remote control detection of coal and rock.
Ugol' Ukr. 5 no.11:37-39 N '61. (MIRA 14:11)

1. Institut avtomatiki Gosplana USSR.
(Coal mines and mining)
(Ultrasonic waves--Industrial applications)